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Hotel Supreme Convention Plaza
111 Magsaysay Avenue
Baguio City





Continental's Energy Management System

April 24, 2018

Chassis & Safety Division Continental Temic Electronics (Phils.), Inc. Plant Calamba



Title of the Presentation



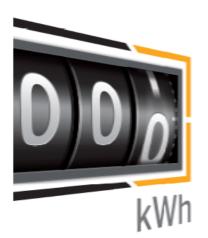
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1. Energy Policy

All employees of Continental Corporation strive for sustainable production and pursue related ecological, economical and social targets. We are aware of the consequences for the environment and the climate resulting from the use of fossil-based raw materials for energy generation. Therefore we are committed to reduce our energy consumption and to improve our energy efficiency with a systematic and continuous improvement process.



- We fulfill all legal obligations and requirements.
- We define responsibilities.
- We train, inform and motivate our employees for an energy conscious behavior.
- We include our contracted partners, suppliers and customers in our energy efficiency activities.
- We regularly and systematically evaluate our energy efficiency, our use of energy and our energy consumption.
- We generate the conditions to achieve our strategic and operative targets.
- We undertake projects and programs to increase our energy efficiency.
- We check, measure and assess our results by performing audits regularly and thereby we intend to continuously improve our system.

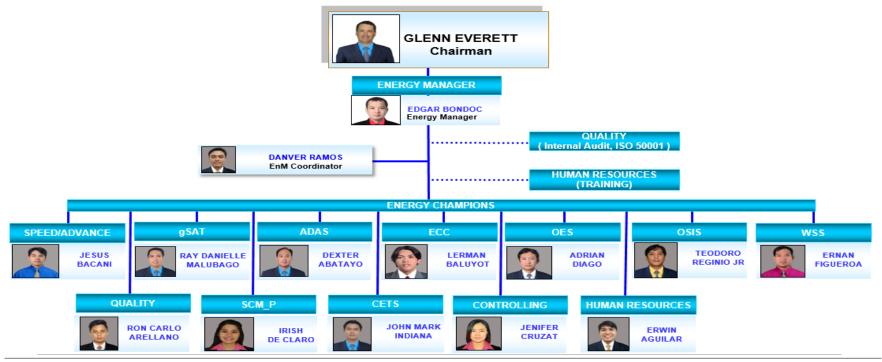
All persons working for our corporation are obliged to follow these standards and to actively participate to become "Best in Class" in Energy Efficiency.







2. Energy Management Team - Plant Calamba

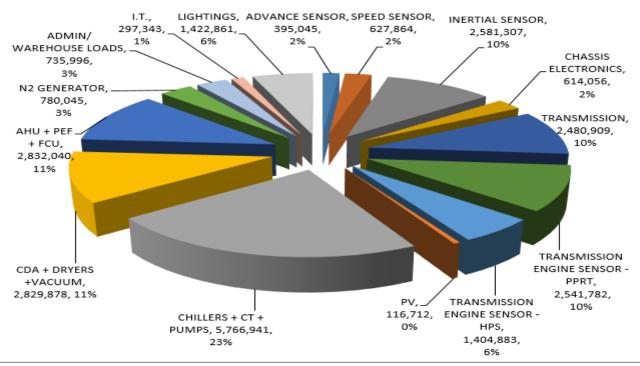








3. Energy Baseline Data Chart









4.1. Energy Efficiency Programs

ITEM NO.	ENERCON PROGRAMS	ENERGY SAVINGS (kWh / Year)	AVOIDANCE OF CO2 (tons)	SUPPORTING PICTURES	
	Installation of FCU at MSS office, Clinic and Dentist room in order to turn-off AHU5A and AHU5B				
1	1,004,001 Installation of ducted type FCU at Matlab in order to turn-off AHU2-4. Turn-off Booster Fan 2C and replaced with FFU's	472			
2	Installation of FCU's in offices & meeting rooms.	395,937	186		
3	Turning off AHU's & installation of FCU's at HR, Controlling & Training Rooms	63,638	30		







4.2. Energy Efficiency Programs

ITEM NO.	ENERCON PROGRAMS	ENERGY SAVINGS (kWh / Year)	AVOIDANCE OF CO2 (tons)	SUPPORTING PICTURES
4	Installation of VFD for Chilled Water Booster Pumps & Condenser Pumps	407,633	192	i i i i i i i i i i i i i i i i i i i
5	Shutting off of Chillers units during no production operation days	1,935,179		
	Improve cooling water treatment to reduce condenser approach temperature to below 6 °C		910	
	Increase chilled water setting from 11 to 12 °C			
	Increase space temperature set point in air-conditioned areas from 21-24°C to 24-27°C			
6	Increase chilled water temperature set point from 9C to 11C	61,756	29	Company of the compan







4.3. Energy Efficiency Programs

ITEM NO.	ENERCON PROGRAMS	ENERGY SAVINGS (kWh / Year)	AVOIDANCE OF CO2 (tons)	SUPPORTING PICTURES
	Vacuum cleaner of IPTE router is always ON. Automate control to turn on only when spindle is running or cutting. (1.5kva		23	10.5°.
7	Automate oven time controls, (Connector pre-bake oven – 10kva	48,116		II H
8	Installation of LED tubes at ADMIN/Common Area	107,439	50	







4.4. Energy Efficiency Programs

ITEM NO.	ENERCON PROGRAMS	ENERGY SAVINGS (kWh / Year)	AVOIDANCE OF CO2 (tons)	SUPPORTING PICTURES
9	Replacement of Conventional Ballast to Electronic Ballast at Warehouse/ Facilities Area & Phase 1 & 2 production area	121,773	57	
10	Replacement of emergency lights at production area except those on emergency exit doors with the existing ceiling lighting fixtures connected to UPS supply	86,760	41	
11	Replacement of 215 pcs. 2 x 22W LED tubes into 9W LED bulb at Hallways	242,378	114	







4.5. Energy Efficiency Programs

ITEM NO.	ENERCON PROGRAMS	ENERGY SAVINGS (kWh / Year)	AVOIDANCE OF CO2 (tons)	SUPPORTING PICTURES
12	Replacement of Fluorescent tubes to LED tubes (Building 2 and Ph1)	270,768	127	
13	Replacement of 2,500 pcs. Existing 2 x 36 W fluorescent lamp into 2 x 16 W LED tubes @ Production areas of B2 & Phase 2	3,148,465	1,480	
14	Installation of 700kWp Solar PV System	918,147	432	





5. Strategic Planning









6. ISO 50001 Training





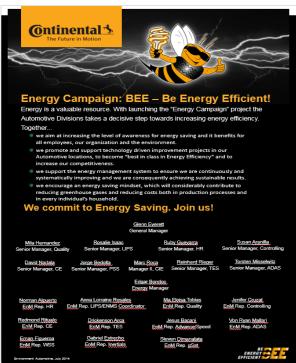




7. Energy Day & BEE Launching











8. ISO 50001 Awarding





CERTIFICATE



This is to certify that

Continental Temic Electronics (Phils), Inc.

16 Ring Road LISP2-SEZ Brgy. La Mesa, Calamba City 4027 Laguna, Philippines

has implemented and maintains an Energy Management System.

Scope:

Manufacturing of electro-mechanical and electronic parts and units for the automotive industry.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 50001: 2011

Certificate registration no. 50500116 EMSt Valid from 2015-12-10

Valid until 2018-12-10

Valid until 2018-12-09

Date of certification 2015-12-10

DAkkS
Deutsche
Akkreditierungss
D-ZM-16074-01-6

DQS GmbH

G. Blechschundt

Götz Blechschmidt Managing Director

Accredited Body: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main





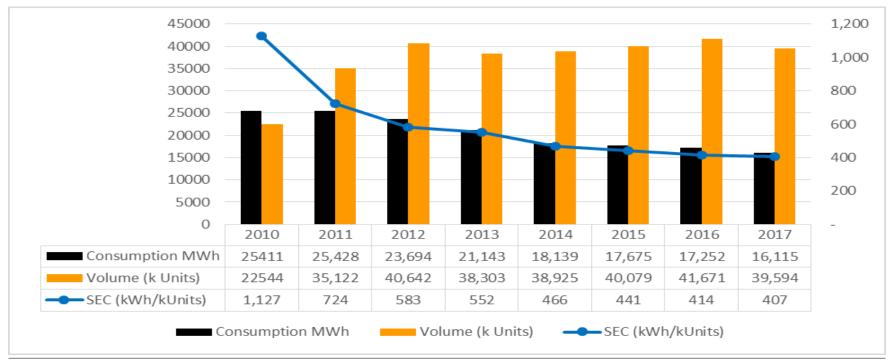


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9. Consumption & Specific Energy









Thank you for your attention!







